

Assignment -2
Python Programming

Assignment Date	26 September 2022
Student Name	Ajay Rajan R
Student Roll Number	917719IT005
Maximum Marks	2 Marks

Question-1:

Build a python code, Assume you get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

Solution:

```
import random

def getTempHumidity():

    return random.random(), random.random();

threshold=0.83

while(1):

    vals=getTempHumidity()

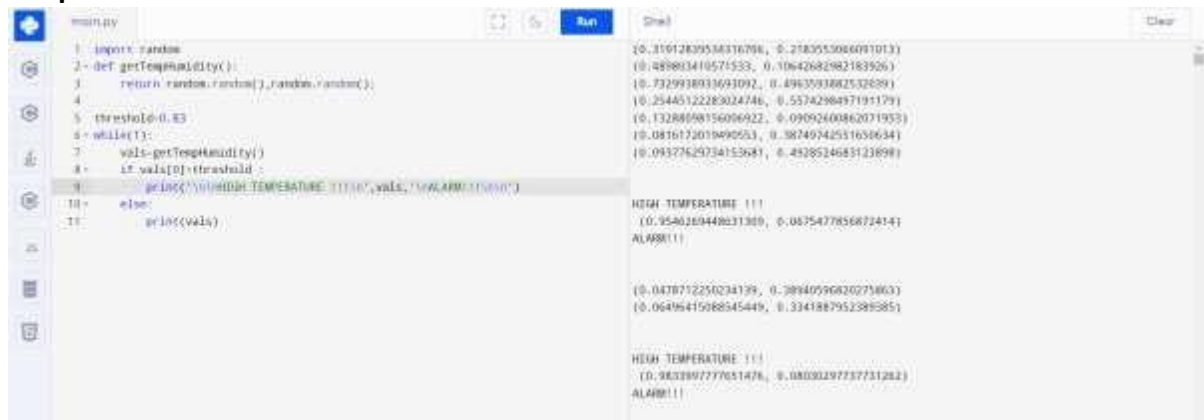
    if vals[0]>threshold :

        print('\n\nHIGH TEMPERATURE !!!\n',vals,'\n\nALARM!!!\n\n')

    else:

        print(vals)
```

Output:



```
1: import random
2: def getTempHumidity():
3:     return random.random(), random.random()
4:
5: threshold=0.83
6: while(1):
7:     vals=getTempHumidity()
8:     if vals[0]>threshold :
9:         print('\n\nHIGH TEMPERATURE !!!\n',vals,'\n\nALARM!!!\n\n')
10:    else:
11:        print(vals)

[0.31012839538316798, 0.2583555086091013]
[0.4898813410571533, 0.10642682982183926]
[0.7329918933691092, 0.49635933882532699]
[0.25445122283024746, 0.55742388497191179]
[0.13288698156096922, 0.09092400862071953]
[0.0816172019490551, 0.38749742511650634]
[0.09377629734153681, 0.4938514683123898]

HIGH TEMPERATURE !!!
[0.9540269448231309, 0.0875477856872414]
ALARM!!!

[0.0478752250234139, 0.38940596820275863]
[0.06496415088545449, 0.3341887951388585]

HIGH TEMPERATURE !!!
[0.9833897777651476, 0.0803029727731282]
ALARM!!!
```